

IN THE CLAIMS:

Please amend Claims 1, 3, 4, 5, 6, 7, 8, 12 and 13 as follows.

1. (Currently Amended) Apparatus for measuring the geometry and surface evenness of a metal strip by producing a pattern on the surface to be measured, using a light source and a camera, characterized in that the pattern is produced on the surface [[4]] to be measured by projection with the aid of a transparency, ~~51, 52~~.

2. (Original) Apparatus according to Claim 1, characterized in that a changeable pattern is produced.

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3. (Currently Amended) Apparatus according to Claim 2, characterized in that the pattern is produced with the aid of a liquid-crystal device ~~51, 52~~.

4. (Currently Amended) Apparatus according to Claim 1, characterized in that [[the]] projector illumination ~~23, 53~~ is regulated via the evaluation of [[the]] grey shades determined by the camera [[22]], in order to achieve a suitable control of the camera [[22]].

5. (Currently Amended) Apparatus according to Claim 1, characterized in that the exposure time and/or aperture of the camera [[22]] is regulated via the evaluation of [[the]] grey shades of the surface image determined by the camera [[22]], in order to achieve a suitable control of the camera [[22]].

6. (Currently Amended) Apparatus according to Claim 1, characterized in that a camera [[22]] with non-linear sensitivity is used.

7. (Currently Amended) Apparatus according to Claim 1, characterized in that projector—23,—53 and camera [[22]] span with the measurement points an angle which is less than 90°, and/or are arranged on the same side laterally next to the object [[4]] to be measured.

B' 8. (Currently Amended) Apparatus according to Claim 1, characterized in that projector—23,—53 and camera [[22]] are arranged next to one another or above one another above the object [[4]] to be measured.

9. (Previously Presented) Method for measuring the strip geometry comprising:

~~using—providing~~ an apparatus according to Claim 1, ~~characterized in that~~ filtering elastic form changes are ~~filtered—using~~ the initially detected peaks; and

separating the peaks—~~are separated~~ according to different frequencies and wavelengths on account of strip movements.

10. (Previously Presented) Method for measuring the geometry of the strip edge comprising:

providing—using an apparatus according to Claim 1, ~~characterized by the use of~~

measuring by using the edge boundary of the strip.

11. (Previously Presented) Method according to Claim 10, characterized in that the strip width or cut length is determined from the edge boundary.

12. (Currently Amended) Method for measuring ~~[[the]]~~ a strip geometry ~~characterized by~~ comprising:

measuring the geometry of a known element of a measuring device;

~~computational generation of generating by computation a~~
reference plane and ~~[[of]]~~ a reference phase image from ~~[[the]]~~
said measured geometry of the known measuring device elements.

13. (Currently Amended) ~~Use of an apparatus~~ A method for measuring the geometry and surface evenness of flat products by producing a pattern on the surface to be measured, using a light source and a camera, in which the pattern is produced on the surface ~~[[4]]~~ to be measured by projection with the aid of a transparency, ~~51, 52,~~ for the purpose of measuring the surface of metal strip.